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Vromen et al.

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[54] PLASTIC MOUTHPIECE FOR SIMULATED SMOKING

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128/760, 765; 131/270, 271, 272, 273; 604/133,
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[56] References Cited

U.S. PATENT DOCUMENTS

2,860,638 11/1958 Bartolomeo
3,320,953 5/1967 Rindner
3,340,869 9/1967 Bane 128/765
3,347,231 10/1967 Chang ..
3,365,102 1/1968 Castleberry ..
3,587,573 6/1971 Flack ..
3,710,804 1/1973 Wey ..
4,083,372 4/1978 Boden ..
4,171,000 10/1979 Uhle ..
4,284,089 8/1981 Ray ..
4,296,071 10/1981 Weiss et al. 128/765
4,393,884 7/1983 Jacobs 131/273
4,429,703 2/1984 Haber 131/273
4,539,985 9/1985 Magrath 604/133 X
4,569,136 2/1986 Loring 131/273
4,655,294 4/1987 Sensabaugh 131/273

FOREIGN PATENT DOCUMENTS

1398033 3/1965 France 131/270

2601563 1/1988 France ..

148789 5/1965 Netherlands ..

2089188 6/1982 United Kingdom ..

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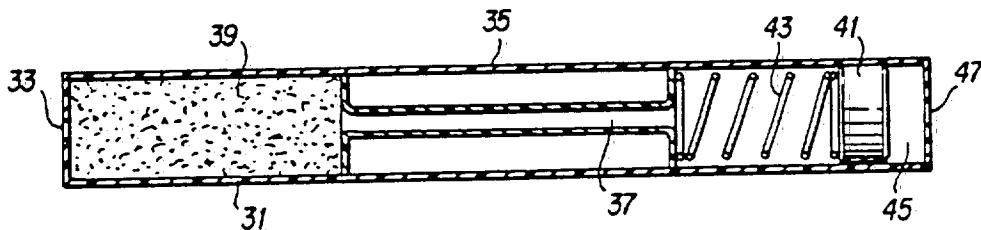
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[57] ABSTRACT

The invention includes a cigarette like device which enables the user to experience the taste and aroma as well as the tactile sensations of smoking a tobacco cigarette—but without the presence of smoke, without any combustion, and without inhalation of harmful carcinogenic substances (e.g. tars) into the user's lungs. The device consists of a plastic mouthpiece containing a plug of chewing tobacco connected to a plastic tube with an axial duct, extending to a sealed end, where there is located a pumping member in the form of a flexible accordion-like, or bellows-type configuration or a spring-loaded ball or piston. In a further embodiment, the device consists of a conventional mouthtip filter, or a tubular body with a flexible collapsible side wall sealed at the far end, and a tobacco insert. In the device, repeated suction cycles by the user are utilized to initially draw the user's saliva through the tobacco insert to flavor it with nicotine, and then to recirculate this saliva back to the user's mouth on successive suction cycles, allowing the user to taste and smell the nicotine. Inserts other than tobacco can be used in the device (e.g. menthol, various medications and the like).

11 Claims, 2 Drawing Sheets



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